ABSTRACT

Metadata for splicing of an encoded digital motion video stream (such as an
MPEG Transport Stream) is prepared in real time while recording at the encoding bit rate
and faster than encoded bit rate for off line encoding independent of the bit rate and
mechanisms for ingestion of the data stream into data storage. Preprocessing is
performed during a metered file transfer protocol (FTP) and includes pseudo real-time
encoding. The preprocessing includes Group of Pictures (GOP) level pre-processing of
splicing In Points and results in an intimate linkage between metadata and the file system
in which the video data is stored. The preferred file system enables access to metadata in
parallel to writing the data on disk. The pre-processing is performed simultaneous to
writing the data to the disk using a carousel type buffer mechanism.